

## Product datasheet for **MG208239**

### **Atp6v1b1 (NM\_134157) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp6v1b1 (NM_134157) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp6v1b1
Synonyms:	Atp6b1; AW208839; D630003L15; D630030L16Rik; D630039P21Rik; Vpp-3; Vpp3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208239 representing NM\_134157  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCACAACAGTAGACAGGTCCTCGGGATTCAGTGGCAATAGCTGTGACCCAGGCACAGCCCAAGAGC  
 ATGTGCAGGCTGTGACCCGAAACTACATCACCCACCCACGAGTCACCTATAGGACAGTGTGCAGCGTCAA  
 TGGCCCTCTGGTGGTGTGGACCAAGTCAAGTTTCCAGTATGCTGAGATTGTCAACTTTACCCTCCCT  
 GATGGTACTCAGAGGAGTGGCCAGGTGCTTGAAGTGGCTGGGACCAAGGCCATTGTTAGGTGTTTGAAG  
 GGACTTCAGGGATTGATCCAGAACACCATGTGAATCACAGGGGACATCCTGCGGACTCCTGTGTC  
 AGAGGACATGCTGGTGGATTTCAATGGCTCTGGCAAACCCATTGACAAAGGACCTGCTGTGTCATGGCA  
 GAGGAGTTCTGGACATCAATGGCCAGCAATCAATCCCATGACCGAATCTACCCCGAGGAGATGATCC  
 AGACGGGAATCTCCCCATTGATGTGATGAACAGCATCGCTCGTGGCCAGAAGATCCCCATCTTCTCTGC  
 GGCTGGGCTCCCCACAATGAGATTGCAGCCAGATCTGCGCCAAGCCGGGCTGGTGAAGAAATCCAAG  
 GCTGTGCTGGATTATCATGAAGACAATTCGCCATTGTCTTTGCAGCCATGGGGGTGAACATGGAGACAG  
 CCAGGTTCTTCAAGTCAGATTCGAGCAGAATGGAACCATGGAAATGTCTGTCTCTTCTGAAATTTGGC  
 CAATGACCTACGATTGAGCGGATCATCACGCCAGTCTGGCACTGACCACGGCTGAGTTCTTGCCTAC  
 CAGTGTGAGAAGCACGTGCTGGTATACTGACTGACATGAGTCTATGCGGAGGCCCTTGCGGGAGGTCT  
 CAGCTGCCCGGGAGGAAGTGCAGGACGCCGTGGCTTTCTGGATATATGTACACAGACTTGGCCACCAT  
 CTATGAGCGAGCTGGCCGTGTGGAGGGCCGGGTGGTTCATCACCCAGATCCCCATTCTCACCATGCT  
 AATGATGATATCCCCATCCCATCCCAGACTTGACTGGCTTATCACAGAGGGGCAGATTTATGTGGACC  
 GACAGTACATAACCCGGCAGGTCTACCCACCCATCAATGTGCTCCCATCCCTCTCGCGACTGATGAAGC  
 GGCCATAGGCGAGGGCATGACCAGAAAGACACGGAGATGTCTCAACCCAGCTGTACGCCTGCTACGCC  
 ATCGGGAAGGACGTGCAGGCCATGAAAGCGGTGGTGGGGAGGAGGCGCTCACCTCCGAGGACCTGCTCT  
 ACCTGGAGTTCTGCAGAAGTTTGAAGAATTTATCACCCAAGGTCTTACGAGAACCGACGGTGT  
 CGAGTCTGACCTGGGCTGGAAACTGCTGCGCATTTTCCGAAAGAGATGCTGAAGCGCATTCCGCGAG  
 AGCATGACGGACGAGTTCTACTCTGCCAGGGGCGCAGCAGGACCCCGCATCCGACACGGCGCTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208239 representing NM\_134157  
 Red=Cloning site Green=Tags(s)

MATTVDRSSGFTGNSCDPGTAQEHVQAVTRNYITHPRVYRTVCSVNGPLVVLDQVKFAQYAEIVNFTLP  
 DGTQSRGQVLEVAGTKAIVQVFEGTSGIDSQKTTCEFTGDILRTPVSEDMLGRIFNGSGKPIDKGPVMA  
 EEFLDINGQPINPHDRIYPEEMIQTGISPIDVMNSIARGQKIPIFSAAGLPHNEIAAQICRQAGLVKSK  
 AVL DYHEDNFAIVFAAMGVNMETARFFKSDFEQNGTMGNVCLFLNLANPTIERIITPRLALTTAEFLAY  
 QCEKHVLVIL TDMSSYAEALREVSAAAREEVPGRRGFPGYMYDLATIYERAGRVEGRGGSITQIPILTMP  
 NDDITHPIPDLTGFI TEGQIYVDRQLHNRQVYPPINVLPSLSRLMKS AIGEGMTRKDHGDVSNQLYACYA  
 IGKDVQAMKAVVGEEAL TSEDL LYLEFLQKFEKNF ITQGPYENRTVFESLDL GWKLLRIFPKEMLRIPQ  
 SMTDEFYSRQGAQQDPASDTAL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

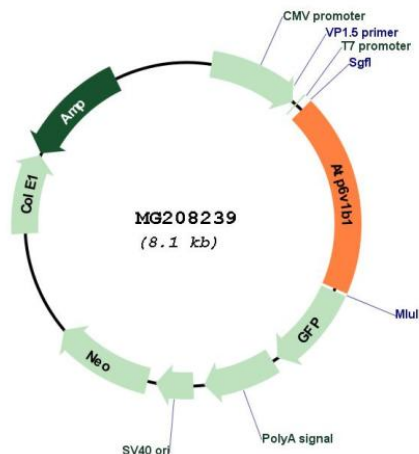
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_134157

ORF Size: 1539 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_134157.2](#), [NP\\_598918.1](#)

**RefSeq Size:** 1945 bp

**RefSeq ORF:** 1542 bp

**Locus ID:** 110935

**UniProt ID:** [Q91YH6](#)

**Cytogenetics:** 6 35.94 cM

**Gene Summary:** Non-catalytic subunit of the V1 complex of vacuolar(H<sup>+</sup>)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (PubMed:16174750, PubMed:23028982). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (By similarity). Essential for the proper assembly and activity of V-ATPase (By similarity). In renal intercalated cells, mediates secretion of protons (H<sup>+</sup>) into the urine thereby ensuring correct urinary acidification (PubMed:16174750). Required for optimal olfactory function by mediating the acidification of the nasal olfactory epithelium (PubMed:23028982).[UniProtKB/Swiss-Prot Function]